



GLI-1 Monoclonal Antibody

Catalog No	YP-mAb-10765
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	GLI1 GLI
Protein Name	GLI-1
Immunogen	Synthesized peptide derived from human GLI-1. at AA range: 460-490
Specificity	This antibody detects endogenous levels of GLI-1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000, ELISA 1:10000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Zinc finger protein GLI1 (Glioma-associated oncogene) (Oncogene GLI)
Observed Band	120kD
Cell Pathway	Cytoplasm . Nucleus . Tethered in the cytoplasm by binding to SUFU (PubMed:10806483). Activation and translocation to the nucleus is promoted by interaction with STK36 (PubMed:10806483). Phosphorylation by ULK3 may promote nuclear localization (PubMed:19878745). Translocation to the nucleus is promoted by interaction with ZIC1 (PubMed:11238441). . ; [Isoform 2]: Cytoplasm . Nucleus .
Tissue Specificity	Detected in testis (at protein level) (PubMed:2105456). Testis, myometrium and fallopian tube. Also expressed in the brain with highest expression in the cerebellum, optic nerve and olfactory tract (PubMed:19878745). Isoform 1 is detected in brain, spleen, pancreas, liver, kidney and placenta; isoform 2 is not detectable in these tissues (PubMed:19706761).
Function	disease:Defects in GLI1 may be a cause of breast cancer.;function:May regulate the transcription of specific genes during normal development. May play a role in craniofacial development and digital development, as well as development of the central nervous system and gastrointestinal tract. Mediates SHH signaling and thus cell proliferation and differentiation.;induction:Amplified in glioblastoma cells.;similarity:Belongs to the GLI C2H2-type zinc-finger protein family.;similarity:Contains 5 C2H2-type zinc fingers.;subcellular location:Tethered in the cytoplasm by binding to SUFU. Activation and translocation to the nucleus



is promoted by interaction with STK36.,tissue specificity:Testis, myometrium and fallopian tube.,

Background

This gene encodes a member of the Kruppel family of zinc finger proteins. The encoded transcription factor is activated by the sonic hedgehog signal transduction cascade and regulates stem cell proliferation. The activity and nuclear localization of this protein is negatively regulated by p53 in an inhibitory loop. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009],

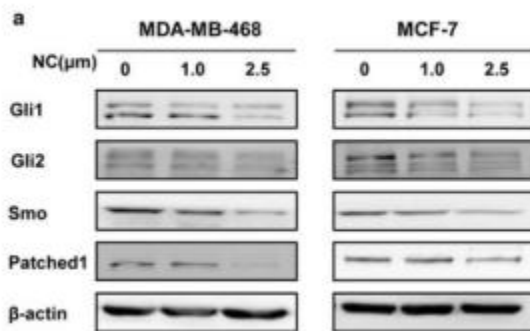
matters needing attention

Avoid repeated freezing and thawing!

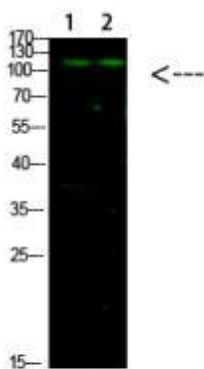
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Sun, Mingjuan, et al. "Hedgehog pathway is involved in nitidine chloride induced inhibition of epithelial-mesenchymal transition and cancer stem cells-like properties in breast cancer cells." *Cell & bioscience* 6.1 (2016): 44.



Western Blot analysis of 1,mouse-liver 2,hela cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody:Goat Anti-mouse IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour)